



LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.15	24.56	24.22
5	1	12		23.86	24.35	23.98
5	1	24		23.62	24.13	23.69
5	12	0		23.40	23.88	23.46
5	12	6		23.12	23.67	23.20
5	12	11		22.84	23.40	22.94
5	25	0		22.60	23.20	22.69
5	1	0	16-QAM	23.86	24.28	23.98
5	1	12		23.66	24.03	23.73
5	1	24		23.41	23.82	23.48
5	12	0		23.18	23.58	23.26
5	12	6		22.96	23.28	23.02
5	12	11		22.68	23.04	22.74
5	25	0		22.41	22.76	22.45
10	1	0	QPSK	24.64	24.70	24.35
10	1	24		24.37	24.41	24.13
10	1	49		24.09	24.16	23.91
10	25	0		23.88	23.88	23.67
10	25	12		23.60	23.66	23.45
10	25	24		23.37	23.38	23.24
10	50	0		23.08	23.10	22.96
10	1	0	16-QAM	24.35	24.42	24.09
10	1	24		24.06	24.19	23.83
10	1	49		23.80	23.93	23.56
10	25	0		23.50	23.65	23.27
10	25	12		23.26	23.43	23.07
10	25	24		23.01	23.16	22.78
10	50	0		22.74	22.95	22.50



LTE BAND 25

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.51	23.66	23.10
1.4	1	2		23.24	23.44	22.81
1.4	1	5		22.97	23.18	22.55
1.4	3	0		22.67	22.96	22.25
1.4	3	1		22.43	22.70	22.00
1.4	3	2		22.20	22.46	21.74
1.4	6	0		21.95	22.25	21.49
1.4	1	0	16-QAM	23.25	23.43	22.90
1.4	1	2		23.01	23.17	22.66
1.4	1	5		22.72	22.97	22.38
1.4	3	0		22.44	22.76	22.11
1.4	3	1		22.21	22.50	21.90
1.4	3	2		21.97	22.23	21.66
1.4	6	0		21.72	21.97	21.44
3	1	0	QPSK	23.56	23.81	23.41
3	1	7		23.35	23.59	23.11
3	1	14		23.13	23.39	22.87
3	8	0		22.88	23.11	22.60
3	8	4		22.66	22.84	22.33
3	8	7		22.37	22.57	22.08
3	15	0		22.10	22.29	21.82
3	1	0	16-QAM	23.34	23.53	23.19
3	1	7		23.05	23.33	22.90
3	1	14		22.81	23.08	22.64
3	8	0		22.55	22.82	22.40
3	8	4		22.32	22.52	22.11
3	8	7		22.03	22.25	21.82
3	15	0		21.79	21.98	21.59



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.61	23.70	23.54
5	1	12		23.31	23.46	23.29
5	1	24		23.08	23.20	23.03
5	12	0		22.85	22.93	22.78
5	12	6		22.58	22.72	22.57
5	12	11		22.36	22.43	22.29
5	25	0		22.13	22.16	22.05
5	1	0	16-QAM	23.34	23.49	23.26
5	1	12		23.05	23.28	22.98
5	1	24		22.79	23.06	22.76
5	12	0		22.54	22.82	22.53
5	12	6		22.29	22.61	22.31
5	12	11		22.05	22.37	22.03
5	25	0		21.81	22.12	21.77
10	1	0	QPSK	23.19	23.53	23.43
10	1	24		22.95	23.30	23.14
10	1	49		22.70	23.08	22.87
10	25	0		22.43	22.86	22.60
10	25	12		22.23	22.58	22.37
10	25	24		21.93	22.34	22.12
10	50	0		21.64	22.04	21.88
10	1	0	16-QAM	22.94	23.26	23.23
10	1	24		22.67	23.04	23.02
10	1	49		22.38	22.79	22.78
10	25	0		22.09	22.52	22.57
10	25	12		21.82	22.30	22.33
10	25	24		21.53	22.00	22.07
10	50	0		21.33	21.74	21.83



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.50	23.69	23.29
15	1	37		23.23	23.42	23.05
15	1	74		23.01	23.13	22.78
15	36	0		22.75	22.87	22.51
15	36	18		22.51	22.62	22.23
15	36	39		22.24	22.35	22.03
15	75	0		21.98	22.06	21.79
15	1	0	16-QAM	23.28	23.41	23.01
15	1	38		23.01	23.20	22.75
15	1	75		22.81	22.92	22.54
15	36	0		22.60	22.65	22.26
15	36	18		22.32	22.43	22.02
15	36	39		22.09	22.14	21.82
15	75	0		21.87	21.84	21.53
20	1	0	QPSK	23.64	23.83	23.51
20	1	49		23.39	23.54	23.27
20	1	99		23.16	23.25	23.05
20	50	0		22.94	22.99	22.77
20	50	24		22.69	22.69	22.56
20	50	49		22.48	22.40	22.30
20	100	0		22.22	22.16	22.01
20	1	0	16-QAM	23.43	23.58	23.22
20	1	49		23.17	23.36	22.98
20	1	99		22.87	23.09	22.70
20	50	0		22.66	22.81	22.42
20	50	24		22.43	22.59	22.13
20	50	49		22.23	22.38	21.88
20	100	0		21.94	22.16	21.65



LTE BAND 26 Part22

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.22	24.40	24.19
1.4	1	2		23.95	24.13	23.93
1.4	1	5		23.69	23.91	23.67
1.4	3	0		23.47	23.69	23.38
1.4	3	1		23.24	23.43	23.13
1.4	3	2		23.01	23.22	22.87
1.4	6	0		22.78	22.93	22.58
1.4	1	0	16-QAM	23.99	24.18	23.95
1.4	1	2		23.73	23.90	23.68
1.4	1	5		23.49	23.65	23.44
1.4	3	0		23.27	23.36	23.18
1.4	3	1		23.02	23.10	22.93
1.4	3	2		22.79	22.87	22.70
1.4	6	0		22.54	22.58	22.40
3	1	0	QPSK	24.18	24.41	24.36
3	1	7		23.95	24.14	24.10
3	1	14		23.68	23.87	23.88
3	8	0		23.44	23.63	23.64
3	8	4		23.18	23.40	23.43
3	8	7		22.91	23.11	23.21
3	15	0		22.62	22.87	22.92
3	1	0	16-QAM	23.95	24.16	24.11
3	1	7		23.71	23.91	23.82
3	1	14		23.50	23.65	23.58
3	8	0		23.28	23.38	23.37
3	8	4		22.98	23.10	23.08
3	8	7		22.75	22.81	22.84
3	15	0		22.51	22.53	22.54



LTE BAND 26 Part22

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.21	24.38	24.05
5	1	12		23.99	24.10	23.77
5	1	24		23.75	23.83	23.48
5	12	0		23.55	23.59	23.19
5	12	6		23.35	23.32	22.97
5	12	11		23.08	23.06	22.70
5	25	0		22.85	22.84	22.40
5	1	0	16-QAM	23.98	24.10	23.77
5	1	12		23.73	23.82	23.49
5	1	24		23.50	23.58	23.23
5	12	0		23.22	23.35	22.96
5	12	6		22.92	23.14	22.75
5	12	11		22.72	22.93	22.53
5	25	0		22.45	22.66	22.25
10	1	0	QPSK	24.09	24.15	24.13
10	1	24		23.82	23.91	23.83
10	1	49		23.53	23.64	23.59
10	25	0		23.27	23.39	23.34
10	25	12		23.04	23.15	23.06
10	25	24		22.84	22.94	22.79
10	50	0		22.62	22.66	22.50
10	1	0	16-QAM	23.82	23.95	23.87
10	1	24		23.61	23.71	23.63
10	1	49		23.37	23.43	23.42
10	25	0		23.12	23.16	23.20
10	25	12		22.91	22.95	22.98
10	25	24		22.63	22.69	22.72
10	50	0		22.41	22.43	22.47



LTE BAND 26 Part22

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.29	24.46	24.13
15	1	37		24.08	24.23	23.84
15	1	74		23.83	24.01	23.56
15	36	0		23.61	23.74	23.28
15	36	18		23.34	23.49	23.02
15	36	39		23.07	23.25	22.72
15	75	0		22.80	23.01	22.44
15	1	0	16-QAM	24.08	24.18	23.84
15	1	38		23.83	23.90	23.59
15	1	75		23.61	23.62	23.36
15	36	0		23.36	23.42	23.10
15	36	18		23.13	23.12	22.81
15	36	39		22.90	22.87	22.60
15	75	0		22.68	22.57	22.34



LTE BAND 26 Part90

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.17	24.35	24.06
1.4	1	2		23.96	24.06	23.76
1.4	1	5		23.75	23.78	23.49
1.4	3	0		23.51	23.49	23.26
1.4	3	1		23.22	23.24	22.97
1.4	3	2		23.00	23.01	22.77
1.4	6	0		22.73	22.75	22.55
1.4	1	0	16-QAM	23.92	24.06	23.84
1.4	1	2		23.64	23.85	23.56
1.4	1	5		23.34	23.57	23.28
1.4	3	0		23.08	23.37	23.06
1.4	3	1		22.86	23.09	22.77
1.4	3	2		22.57	22.85	22.49
1.4	6	0		22.37	22.64	22.23
3	1	0	QPSK	24.17	24.26	24.18
3	1	7		23.95	23.98	23.93
3	1	14		23.71	23.74	23.72
3	8	0		23.47	23.47	23.51
3	8	4		23.22	23.21	23.22
3	8	7		22.94	22.92	22.99
3	15	0		22.70	22.67	22.73
3	1	0	16-QAM	23.97	24.02	23.95
3	1	7		23.70	23.78	23.75
3	1	14		23.49	23.52	23.54
3	8	0		23.23	23.32	23.28
3	8	4		23.02	23.04	23.06
3	8	7		22.81	22.82	22.80
3	15	0		22.57	22.52	22.58



LTE BAND 26 Part90

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.38	24.41	24.27
5	1	12		24.11	24.19	24.03
5	1	24		23.85	23.90	23.83
5	12	0		23.57	23.65	23.62
5	12	6		23.35	23.42	23.41
5	12	11		23.07	23.17	23.18
5	25	0		22.82	22.88	22.96
5	1	0	16-QAM	24.08	24.20	24.02
5	1	12		23.80	23.92	23.76
5	1	24		23.57	23.68	23.55
5	12	0		23.33	23.46	23.31
5	12	6		23.06	23.26	23.02
5	12	11		22.78	23.03	22.80
5	25	0		22.49	22.79	22.60
10	1	0	QPSK	N/A	24.42	N/A
10	1	24		N/A	24.13	N/A
10	1	49		N/A	23.86	N/A
10	25	0		N/A	23.62	N/A
10	25	12		N/A	23.42	N/A
10	25	24		N/A	23.16	N/A
10	50	0		N/A	22.88	N/A
10	1	0	16-QAM	N/A	24.13	N/A
10	1	24		N/A	23.87	N/A
10	1	49		N/A	23.66	N/A
10	25	0		N/A	23.43	N/A
10	25	12		N/A	23.21	N/A
10	25	24		N/A	22.96	N/A
10	50	0		N/A	22.69	N/A



LTE BAND 41

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.56	24.72	24.63
5	1	12		24.26	24.46	24.40
5	1	24		24.03	24.21	24.19
5	12	0		23.76	23.97	23.97
5	12	6		23.48	23.70	23.74
5	12	13		23.21	23.41	23.45
5	25	0		22.91	23.16	23.20
5	1	0	16-QAM	24.29	24.49	24.38
5	1	12		24.03	24.26	24.09
5	1	24		23.75	24.05	23.82
5	12	0		23.49	23.80	23.54
5	12	6		23.22	23.57	23.27
5	12	13		22.96	23.30	23.04
5	25	0		22.75	23.10	22.76
10	1	0	QPSK	24.37	24.58	24.25
10	1	24		24.10	24.30	24.02
10	1	49		23.82	24.00	23.79
10	25	0		23.56	23.72	23.52
10	25	12		23.28	23.47	23.30
10	25	25		23.07	23.24	23.09
10	50	0		22.84	22.96	22.80
10	1	0	16-QAM	24.09	24.35	23.97
10	1	24		23.87	24.15	23.75
10	1	49		23.57	23.93	23.48
10	25	0		23.32	23.66	23.26
10	25	12		23.07	23.40	22.96
10	25	25		22.85	23.18	22.68
10	50	0		22.63	22.97	22.47



LTE BAND 41

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.51	24.76	24.44
15	1	37		24.22	24.48	24.21
15	1	74		23.93	24.25	23.99
15	36	0		23.72	23.99	23.74
15	36	19		23.49	23.71	23.50
15	36	39		23.25	23.47	23.22
15	75	0		23.04	23.21	22.93
15	1	0	16-QAM	24.26	24.48	24.22
15	1	38		24.03	24.24	24.02
15	1	75		23.79	23.94	23.72
15	36	0		23.55	23.64	23.47
15	36	19		23.28	23.37	23.23
15	36	39		23.07	23.12	22.99
15	75	0		22.79	22.87	22.76
20	1	0	QPSK	24.59	24.87	24.66
20	1	50		24.35	24.60	24.43
20	1	99		24.13	24.37	24.22
20	50	0		23.85	24.07	23.94
20	50	25		23.63	23.77	23.64
20	50	50		23.36	23.48	23.38
20	100	0		23.12	23.27	23.13
20	1	0	16-QAM	24.33	24.65	24.43
20	1	50		24.05	24.38	24.17
20	1	99		23.79	24.09	23.95
20	50	0		23.51	23.82	23.74
20	50	25		23.25	23.54	23.53
20	50	50		23.02	23.25	23.25
20	100	0		22.77	23.04	23.05



LTE BAND 66

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.68	23.81	23.54
1.4	1	2		23.38	23.54	23.30
1.4	1	5		23.18	23.28	23.03
1.4	3	0		22.90	23.00	22.81
1.4	3	1		22.67	22.70	22.59
1.4	3	2		22.40	22.41	22.38
1.4	6	0		22.16	22.17	22.16
1.4	1	0	16-QAM	23.46	23.51	23.32
1.4	1	2		23.16	23.26	23.09
1.4	1	5		22.87	23.02	22.83
1.4	3	0		22.62	22.77	22.60
1.4	3	1		22.39	22.55	22.37
1.4	3	2		22.15	22.27	22.13
1.4	6	0		21.88	22.03	21.91
3	1	0	QPSK	23.64	23.85	23.80
3	1	7		23.39	23.59	23.52
3	1	14		23.10	23.30	23.28
3	8	0		22.88	23.02	23.01
3	8	4		22.66	22.82	22.80
3	8	7		22.41	22.59	22.58
3	15	0		22.14	22.31	22.30
3	1	0	16-QAM	23.35	23.55	23.58
3	1	7		23.14	23.33	23.32
3	1	14		22.92	23.05	23.04
3	8	0		22.63	22.81	22.83
3	8	4		22.40	22.53	22.62
3	8	7		22.17	22.27	22.33
3	15	0		21.94	22.06	22.06



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.64	23.88	23.79
5	1	12		23.37	23.66	23.53
5	1	24		23.14	23.44	23.26
5	12	0		22.92	23.15	22.97
5	12	6		22.69	22.91	22.74
5	12	11		22.44	22.64	22.54
5	25	0		22.18	22.35	22.24
5	1	0	16-QAM	23.38	23.68	23.55
5	1	12		23.17	23.40	23.31
5	1	24		22.91	23.12	23.02
5	12	0		22.61	22.84	22.77
5	12	6		22.31	22.61	22.56
5	12	11		22.10	22.33	22.32
5	25	0		21.83	22.12	22.03
10	1	0	QPSK	23.82	23.91	23.76
10	1	24		23.52	23.63	23.49
10	1	49		23.29	23.42	23.29
10	25	0		23.06	23.19	23.02
10	25	12		22.81	22.93	22.76
10	25	24		22.59	22.66	22.51
10	50	0		22.34	22.44	22.26
10	1	0	16-QAM	23.53	23.61	23.54
10	1	24		23.32	23.34	23.29
10	1	49		23.06	23.05	23.02
10	25	0		22.84	22.78	22.77
10	25	12		22.62	22.58	22.53
10	25	24		22.35	22.31	22.23
10	50	0		22.06	22.03	22.03



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.49	23.85	23.81
15	1	37		23.26	23.56	23.56
15	1	74		23.01	23.28	23.34
15	36	0		22.75	22.99	23.04
15	36	18		22.45	22.70	22.81
15	36	39		22.19	22.41	22.61
15	75	0		21.98	22.21	22.32
15	1	0	16-QAM	23.22	23.59	23.53
15	1	38		22.99	23.34	23.27
15	1	75		22.78	23.07	23.05
15	36	0		22.53	22.81	22.80
15	36	18		22.25	22.55	22.58
15	36	39		22.00	22.28	22.28
15	75	0		21.77	22.05	22.08
20	1	0	QPSK	23.58	23.98	23.76
20	1	49		23.32	23.73	23.48
20	1	99		23.11	23.52	23.19
20	50	0		22.84	23.31	22.95
20	50	24		22.60	23.03	22.69
20	50	49		22.30	22.78	22.45
20	100	0		22.04	22.55	22.22
20	1	0	16-QAM	23.37	23.72	23.49
20	1	49		23.10	23.52	23.26
20	1	99		22.81	23.22	22.96
20	50	0		22.55	22.95	22.67
20	50	24		22.27	22.69	22.40
20	50	49		22.03	22.44	22.16
20	100	0		21.77	22.14	21.88



LTE BAND 71

LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.59	24.63	24.50
5	1	12		24.29	24.36	24.26
5	1	24		24.08	24.11	24.06
5	12	0		23.80	23.88	23.82
5	12	6		23.51	23.65	23.57
5	12	11		23.30	23.42	23.33
5	25	0		23.08	23.20	23.06
5	1	0	16-QAM	24.32	24.35	24.21
5	1	12		24.09	24.06	23.96
5	1	24		23.81	23.81	23.72
5	12	0		23.55	23.52	23.45
5	12	6		23.28	23.23	23.22
5	12	11		23.08	22.94	23.02
5	25	0		22.84	22.65	22.76
10	1	0	QPSK	24.19	24.50	24.33
10	1	24		23.96	24.24	24.12
10	1	49		23.70	23.96	23.84
10	25	0		23.40	23.69	23.63
10	25	12		23.16	23.46	23.37
10	25	24		22.92	23.20	23.09
10	50	0		22.72	22.99	22.83
10	1	0	16-QAM	23.94	24.27	24.11
10	1	24		23.70	24.06	23.86
10	1	49		23.44	23.83	23.62
10	25	0		23.22	23.55	23.36
10	25	12		22.94	23.28	23.11
10	25	24		22.74	23.04	22.86
10	50	0		22.46	22.84	22.56



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.19	24.51	24.06
15	1	37		23.89	24.24	23.78
15	1	74		23.61	23.98	23.48
15	36	0		23.32	23.75	23.21
15	36	18		23.10	23.50	22.98
15	36	39		22.83	23.25	22.68
15	75	0		22.55	23.01	22.39
15	1	0	16-QAM	23.90	24.23	23.81
15	1	38		23.61	23.98	23.52
15	1	75		23.41	23.75	23.30
15	36	0		23.21	23.50	23.07
15	36	18		22.99	23.24	22.77
15	36	39		22.71	22.98	22.57
15	75	0		22.47	22.78	22.29
20	1	0	QPSK	24.18	24.67	24.56
20	1	49		23.94	24.38	24.35
20	1	99		23.72	24.10	24.07
20	50	0		23.47	23.87	23.86
20	50	24		23.18	23.59	23.61
20	50	49		22.95	23.31	23.33
20	100	0		22.71	23.07	23.13
20	1	0	16-QAM	23.89	24.46	24.27
20	1	49		23.68	24.20	23.97
20	1	99		23.39	23.93	23.75
20	50	0		23.17	23.69	23.47
20	50	24		22.93	23.46	23.20
20	50	49		22.65	23.24	22.92
20	100	0		22.44	23.02	22.67

11. EUT and Test Setup Photo

11.1 EUT Photo

Front side



Back side



Top side



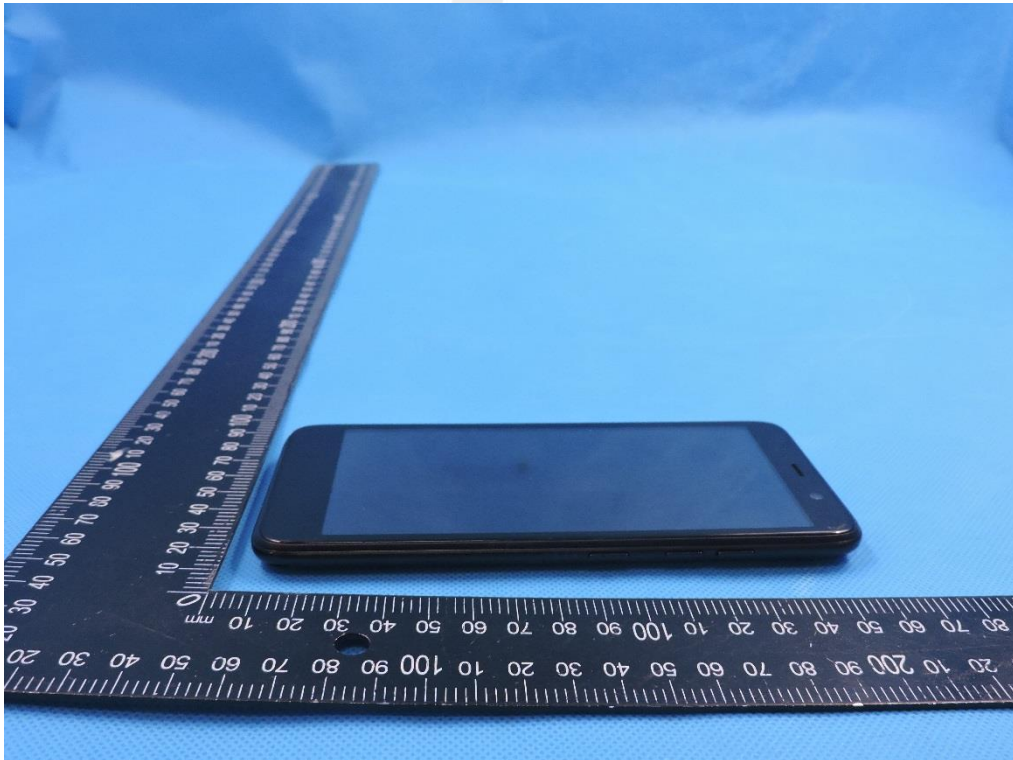
Bottom side



Left side

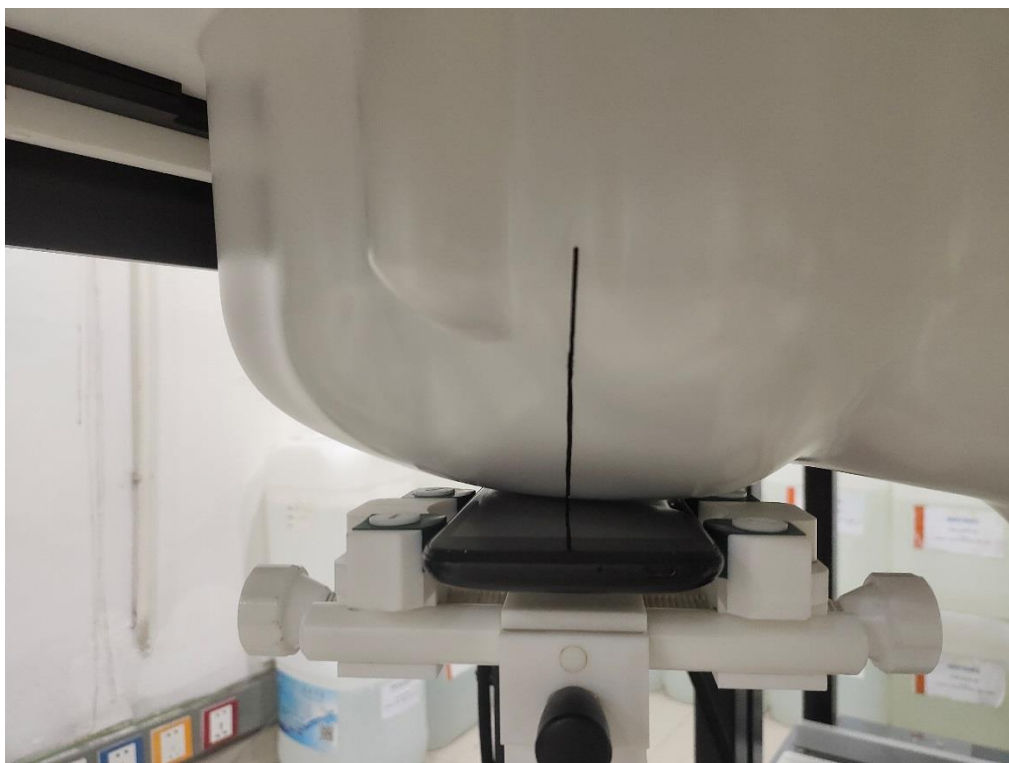


Right side

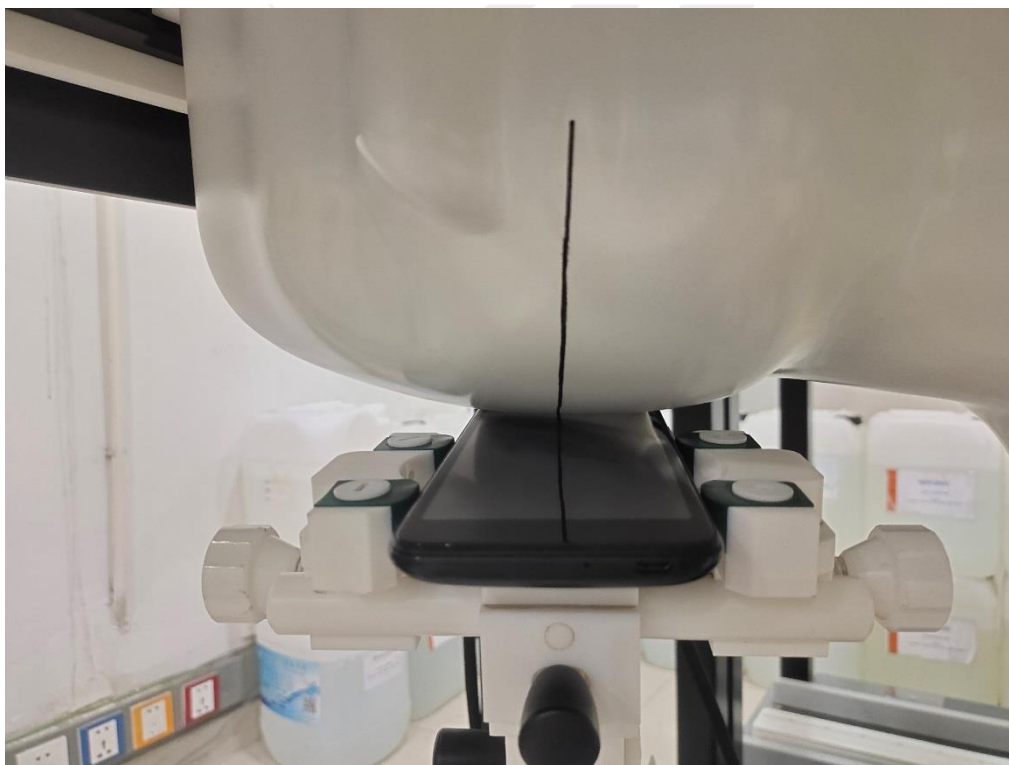


11.2 Setup Photo

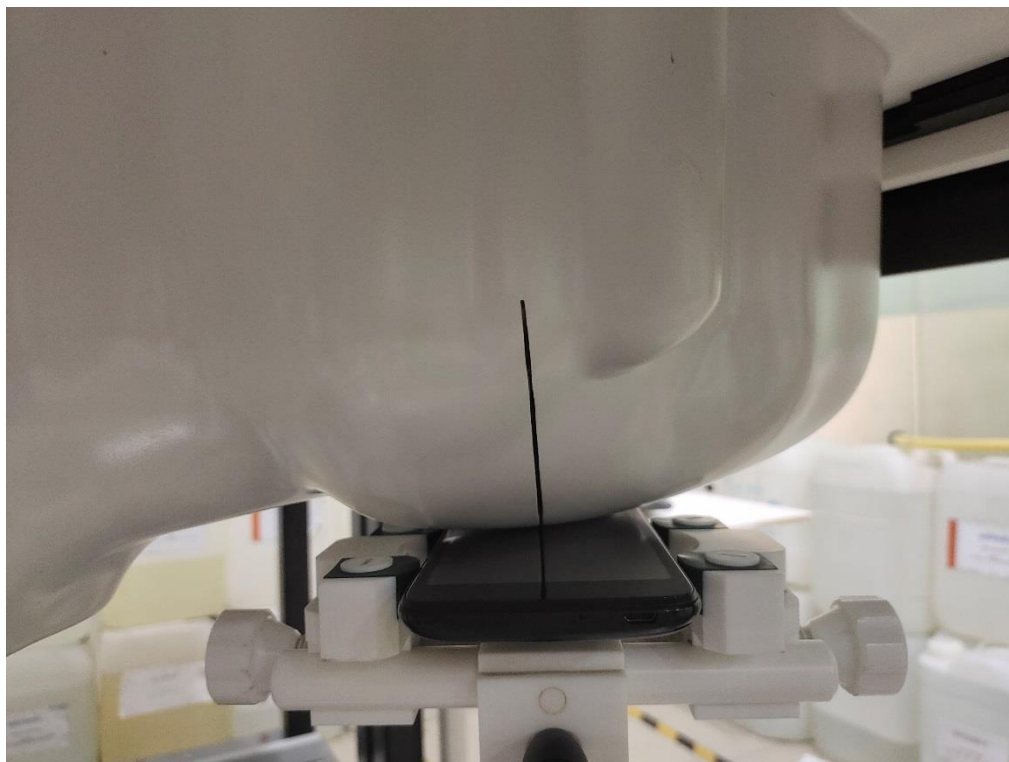
Right Touch



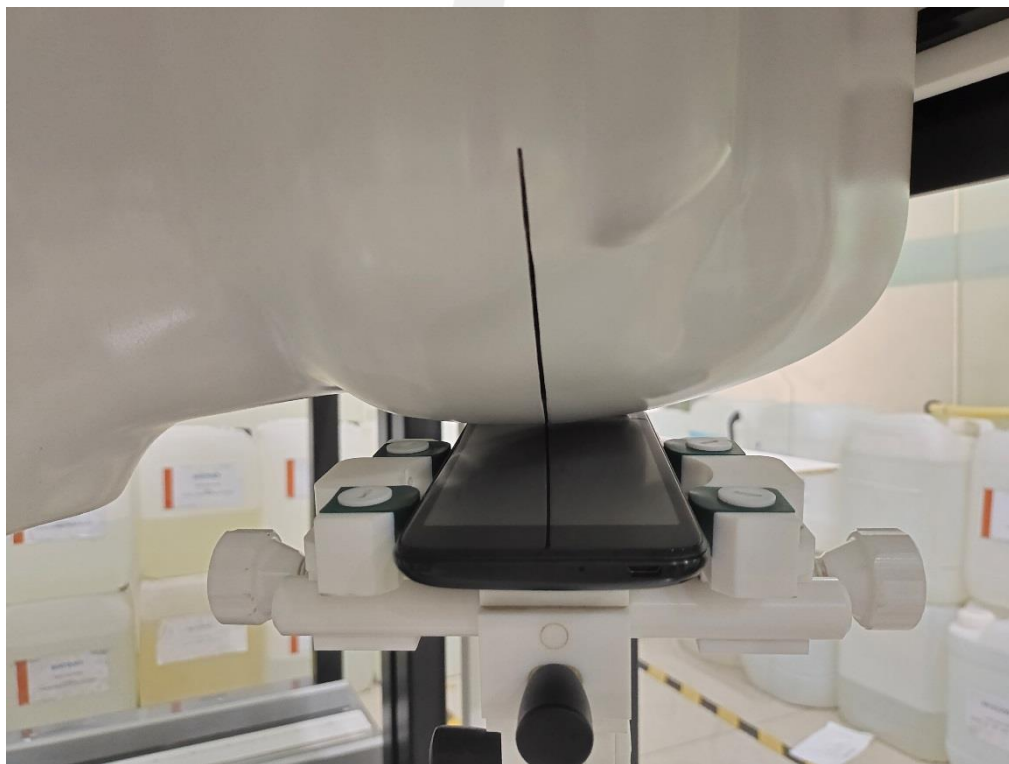
Right Tilt



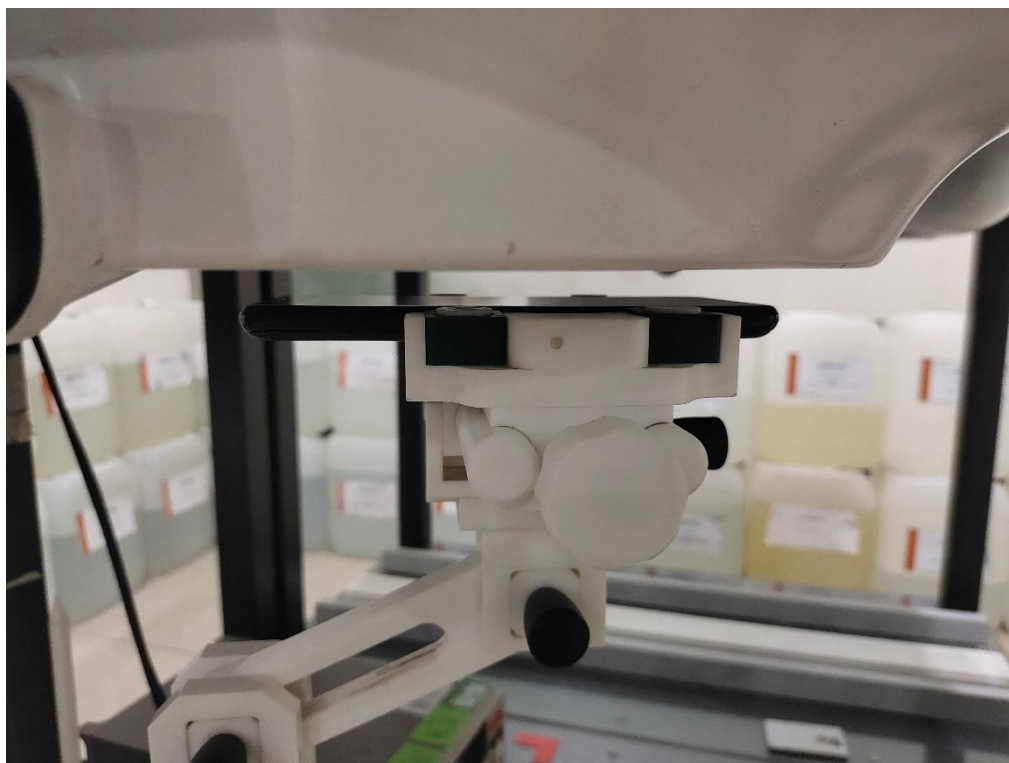
Left Touch



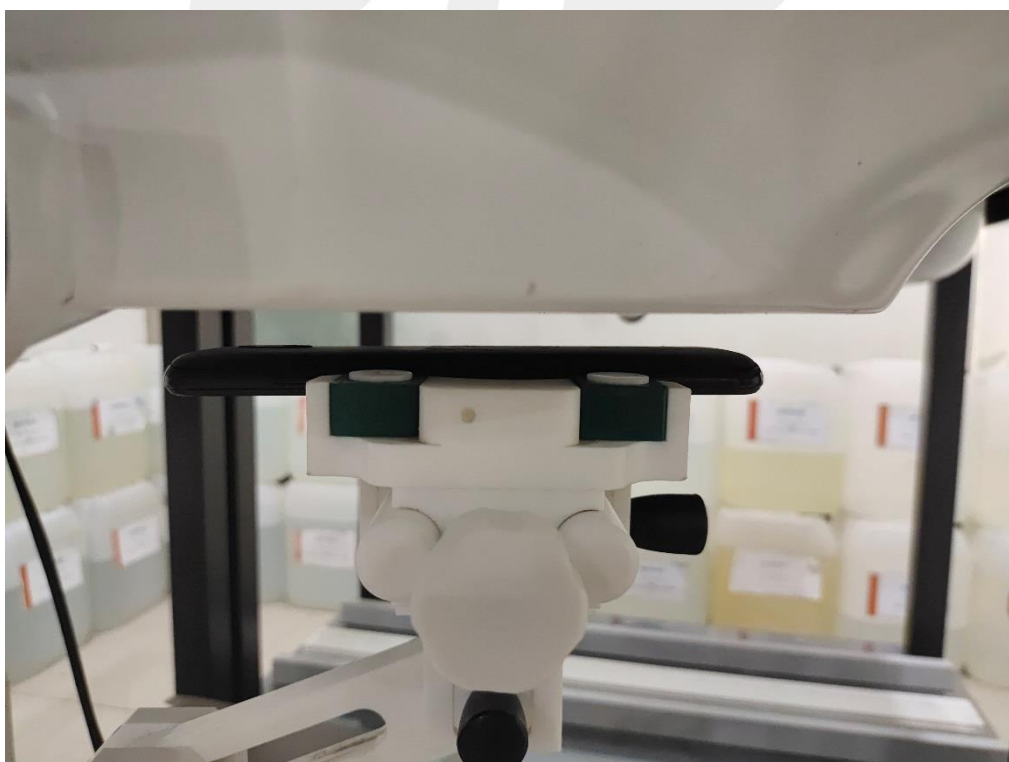
Left Tilt



Body Front side(separation distance is 10mm)



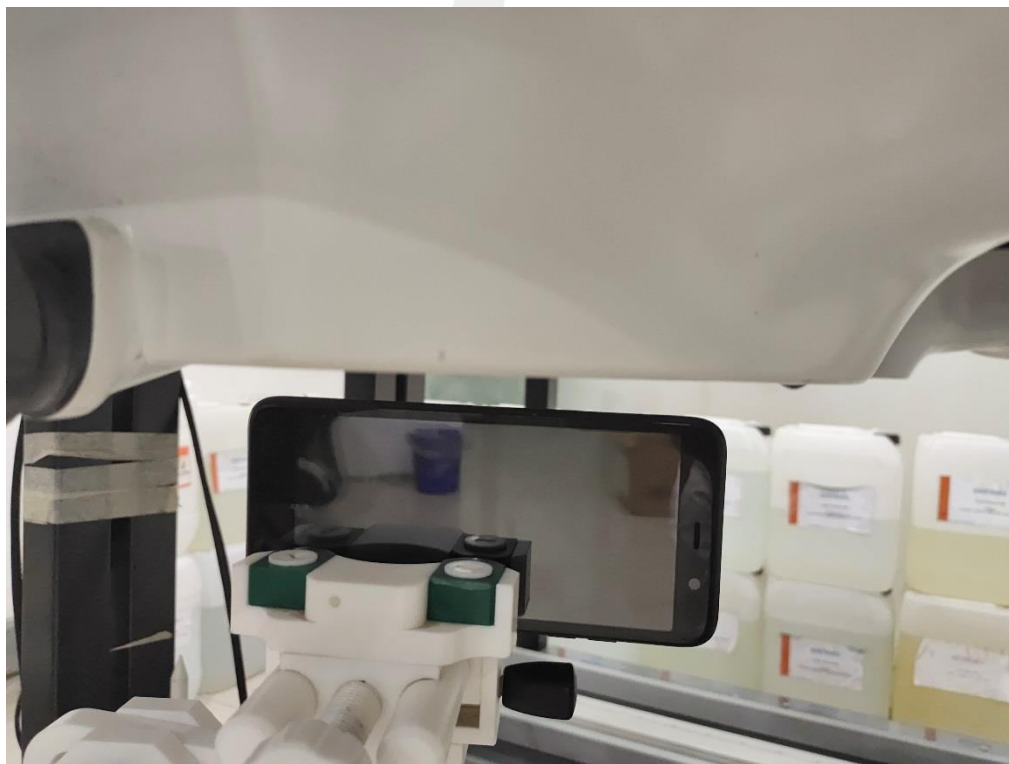
Body Back side(separation distance is 10mm)



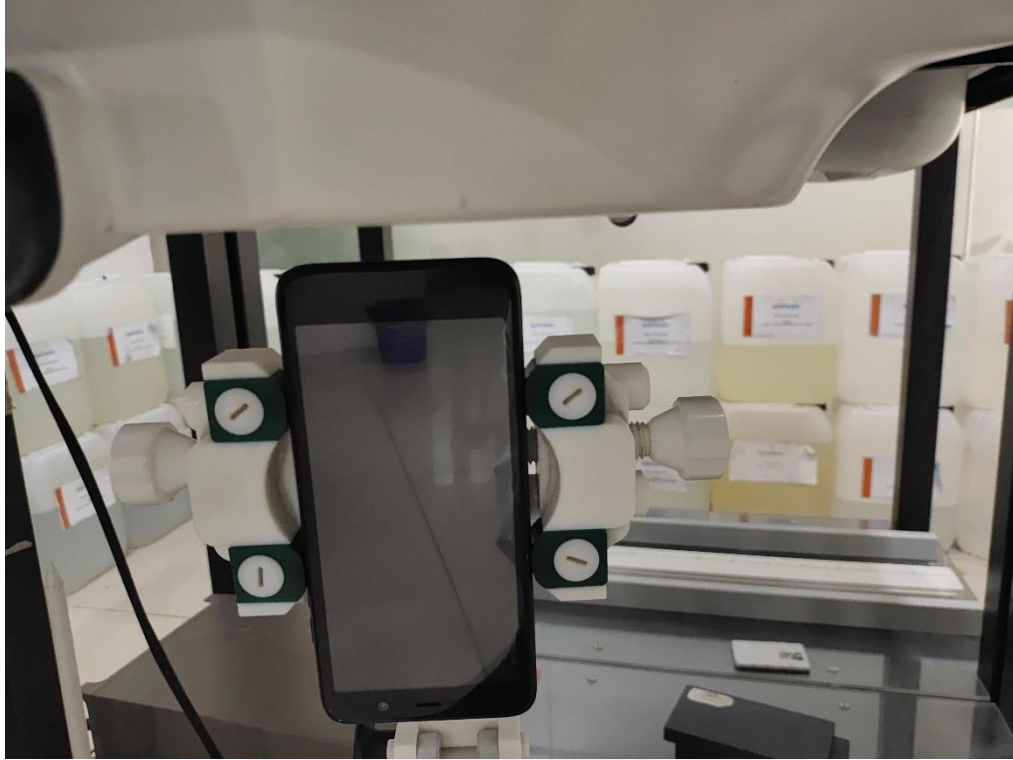
Body Left side(separation distance is 10mm)



Body Right side(separation distance is 10mm)



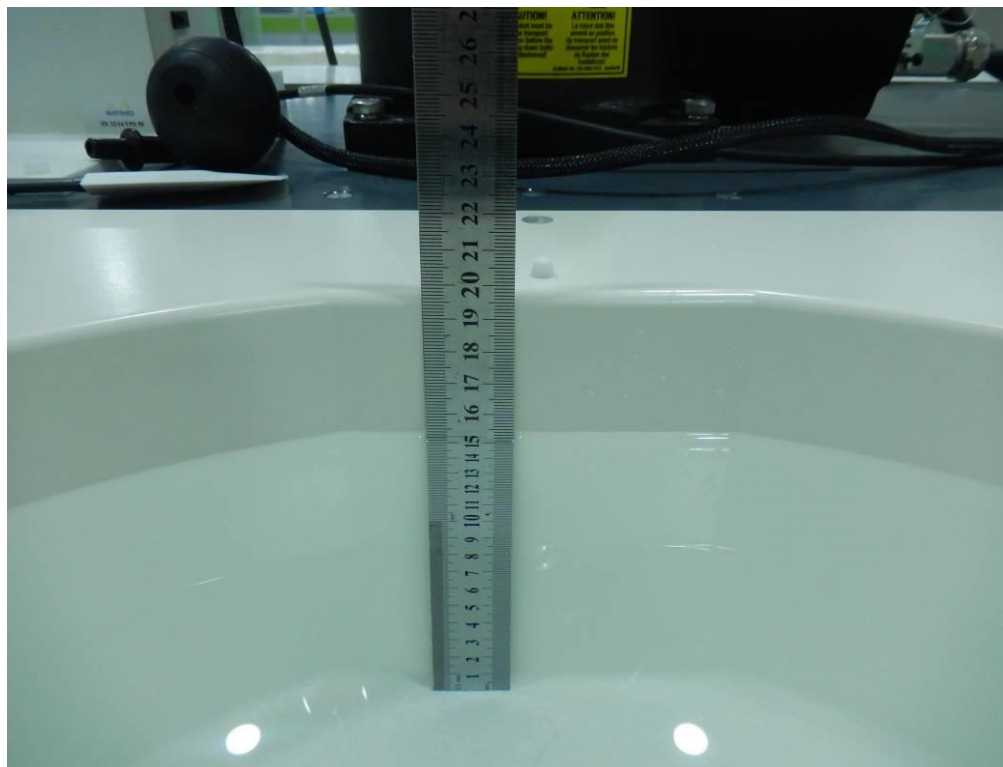
Body Bottom side(separation distance is 10mm)



Body Top side(separation distance is 10mm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM 850	GPRS Data-4 Slot	Right Cheek	190	0.376	-1.09	32	31.58	0.414	1
		Right Tilt	190	0.213	-0.93	32	31.58	0.235	/
		Left Cheek	190	0.362	2.06	32	31.58	0.399	/
		Left Tilt	190	0.227	-2.61	32	31.58	0.250	/
GSM1900	GPRS Data-4 Slot	Right Cheek	661	0.183	3.52	29	28.02	0.229	/
		Right Tilt	661	0.064	0.94	29	28.02	0.080	/
		Left Cheek	661	0.347	-0.04	29	28.02	0.435	3
		Left Tilt	661	0.125	3.73	29	28.02	0.157	/
WCDMA II	RMC	Right Cheek	9262	0.335	1.09	24	23.10	0.412	/
		Right Tilt	9262	0.140	-3.10	24	23.10	0.172	/
		Left Cheek	9262	0.362	2.86	24	23.10	0.445	5
		Left Tilt	9262	0.172	2.69	24	23.10	0.212	/
WCDMA IV	RMC	Right Cheek	1513	0.432	2.57	25.17	25.16	0.433	/
		Right Tilt	1513	0.221	-2.32	25.17	25.16	0.222	/
		Left Cheek	1513	0.461	3.54	25.17	25.16	0.462	7
		Left Tilt	1513	0.237	-1.42	25.17	25.16	0.238	/
WCDMA V	RMC	Right Cheek	4233	0.367	0.48	23.00	22.52	0.410	9
		Right Tilt	4233	0.139	-1.00	23.00	22.52	0.155	/
		Left Cheek	4233	0.330	0.40	23.00	22.52	0.369	/
		Left Tilt	4233	0.137	0.69	23.00	22.52	0.153	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Right Cheek	18900	0.431	1.73	24	23.97	0.434	/
			50	0	Right Cheek	18700	0.351	3.42	24	23.23	0.419	/
			1	0	Right Tilt	18900	0.176	-1.91	24	23.97	0.177	/
			50	0	Right Tilt	18700	0.173	0.75	24	23.23	0.207	/
			1	0	Left Cheek	18900	0.459	-3.73	24	23.97	0.462	11
			50	0	Left Cheek	18700	0.384	3.37	24	23.23	0.458	/
			1	0	Left Tilt	18900	0.206	1.26	24	23.97	0.207	/
			50	0	Left Tilt	18700	0.200	2.30	24	23.23	0.239	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	20175	0.474	-2.18	24	23.97	0.477	/
			50	0	Right Cheek	20175	0.381	-1.59	24	23.12	0.467	/
			1	0	Right Tilt	20175	0.283	0.88	24	23.97	0.285	/
			50	0	Right Tilt	20175	0.251	1.39	24	23.12	0.307	/
			1	0	Left Cheek	20175	0.508	-0.08	24	23.97	0.512	13
			50	0	Left Cheek	20175	0.417	-0.98	24	23.12	0.511	/
			1	0	Left Tilt	20175	0.318	-0.83	24	23.97	0.320	/
			50	0	Left Tilt	20175	0.274	-3.86	24	23.12	0.336	/
LTE Band 5	10M	QPSK	1	0	Right Cheek	20525	0.432	0.54	25	24.67	0.466	15
			25	0	Right Cheek	20525	0.428	2.15	24	23.96	0.432	/
			1	0	Right Tilt	20525	0.217	0.98	25	24.67	0.234	/
			25	0	Right Tilt	20525	0.213	-3.09	24	23.96	0.215	/
			1	0	Left Cheek	20525	0.405	3.56	25	24.67	0.437	/
			25	0	Left Cheek	20525	0.397	-1.74	24	23.96	0.401	/
			1	0	Left Tilt	20525	0.204	2.28	25	24.67	0.220	/
			25	0	Left Tilt	20525	0.193	0.89	24	23.96	0.195	/
LTE Band 12	10M	QPSK	1	0	Right Cheek	23095	0.211	1.45	25	24.70	0.226	17
			25	0	Right Cheek	23095	0.208	1.11	24	23.88	0.214	/
			1	0	Right Tilt	23095	0.134	3.90	25	24.70	0.144	/
			25	0	Right Tilt	23095	0.128	-1.23	24	23.88	0.132	/
			1	0	Left Cheek	23095	0.194	-1.45	25	24.70	0.208	/
			25	0	Left Cheek	23095	0.187	-0.94	24	23.88	0.192	/
			1	0	Left Tilt	23095	0.086	2.25	25	24.70	0.092	/
			25	0	Left Tilt	23095	0.071	-1.75	24	23.88	0.073	/
LTE Band 25	20M	QPSK	1	0	Right Cheek	26365	0.441	-3.53	24	23.83	0.459	/
			50	0	Right Cheek	26365	0.438	1.61	23	22.99	0.439	/
			1	0	Right Tilt	26365	0.203	1.41	24	23.83	0.211	/
			50	0	Right Tilt	26365	0.197	-0.41	23	22.99	0.197	/
			1	0	Left Cheek	26365	0.467	-1.86	24	23.83	0.486	19
			50	0	Left Cheek	26365	0.460	0.05	23	22.99	0.461	/
			1	0	Left Tilt	26365	0.213	0.80	24	23.83	0.222	/
			50	0	Left Tilt	26365	0.208	2.02	23	22.99	0.208	/



LTE Band 26	15M	QPSK	1	0	Right Cheek	26865	0.367	0.05	25	24.46	0.416	21
			36	0	Right Cheek	26865	0.350	-3.93	24	23.74	0.372	/
			1	0	Right Tilt	26865	0.153	-1.41	25	24.46	0.173	/
			36	0	Right Tilt	26865	0.148	-2.90	24	23.74	0.157	/
			1	0	Left Cheek	26865	0.342	1.69	25	24.46	0.387	/
			36	0	Left Cheek	26865	0.335	0.94	24	23.74	0.356	/
			1	0	Left Tilt	26865	0.142	-1.14	25	24.46	0.161	/
			36	0	Left Tilt	26865	0.140	-0.21	24	23.74	0.149	/
LTE Band 41	20M	QPSK	1	0	Right Cheek	40620	0.387	-3.08	25	24.87	0.399	/
			50	0	Right Cheek	40620	0.381	1.86	24	24.07	0.375	/
			1	0	Right Tilt	40620	0.173	-0.87	25	24.87	0.178	/
			50	0	Right Tilt	40620	0.172	3.60	24	24.07	0.169	/
			1	0	Left Cheek	40620	0.419	2.26	25	24.87	0.432	23
			50	0	Left Cheek	40620	0.412	-0.15	24	24.07	0.405	/
			1	0	Left Tilt	40620	0.205	1.29	25	24.87	0.211	/
			50	0	Left Tilt	40620	0.200	-1.47	24	24.07	0.197	/
LTE Band 66	20M	QPSK	1	0	Right Cheek	132322	0.487	1.12	24	23.98	0.489	/
			50	0	Right Cheek	132322	0.413	3.28	24	23.31	0.484	/
			1	0	Right Tilt	132322	0.225	2.2	24	23.98	0.226	/
			50	0	Right Tilt	132322	0.183	2.37	24	23.31	0.215	/
			1	0	Left Cheek	132322	0.512	-1.66	24	23.98	0.514	25
			50	0	Left Cheek	132322	0.437	3.68	24	23.31	0.512	/
			1	0	Left Tilt	132322	0.241	0.49	24	23.98	0.242	/
			50	0	Left Tilt	132322	0.205	-2.3	24	23.31	0.240	/
LTE Band 71	20M	QPSK	1	0	Right Cheek	133297	0.237	-0.50	25	24.67	0.256	27
			50	0	Right Cheek	133297	0.233	-1.76	24	23.87	0.240	/
			1	0	Right Tilt	133297	0.083	1.06	25	24.67	0.090	/
			50	0	Right Tilt	133297	0.081	-3.91	24	23.87	0.083	/
			1	0	Left Cheek	133297	0.210	-2.39	25	24.67	0.227	/
			50	0	Left Cheek	133297	0.208	0.84	24	23.87	0.214	/
			1	0	Left Tilt	133297	0.076	-0.47	25	24.67	0.082	/
			50	0	Left Tilt	133297	0.071	3.52	24	23.87	0.073	/



Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN	802.11b	Right Cheek	1	0.402	3.67	14	13.49	0.452	29
		Right Tilt	1	0.153	-2.93	14	13.49	0.172	/
		Left Cheek	1	0.172	-2.64	14	13.49	0.193	/
		Left Tilt	1	0.083	3.40	14	13.49	0.093	/
5.2G WLAN	802.11a	Right Cheek	36	0.173	2.56	12.5	12.09	0.190	31
		Right Tilt	36	0.078	2.42	12.5	12.09	0.086	/
		Left Cheek	36	0.136	1.72	12.5	12.09	0.149	/
		Left Tilt	36	0.054	-1.83	12.5	12.09	0.059	/
5.3G WLAN	802.11n20	Right Cheek	52	0.134	-3.48	11.5	11.19	0.144	33
		Right Tilt	52	0.057	-1.24	11.5	11.19	0.061	/
		Left Cheek	52	0.101	-1.68	11.5	11.19	0.108	/
		Left Tilt	52	0.042	-1.58	11.5	11.19	0.045	/
5.8G WLAN	802.11n20	Right Cheek	165	0.083	-2.18	11.5	11.14	0.090	35
		Right Tilt	165	0.041	0.34	11.5	11.14	0.045	/
		Left Cheek	165	0.064	-2.80	11.5	11.14	0.070	/
		Left Tilt	165	0.035	-2.09	11.5	11.14	0.038	/

Note:

- Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.452** W/Kg for Head)
- Per KDB865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg



12.2 Body-worn and Hotspot SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM 850	GPRS Data-4 Slot	Front side	190	0.354	0.05	32	31.58	0.390	/
		Back side	190	0.420	-2.54	32	31.58	0.463	2
		Left side	190	0.245	-1.90	32	31.58	0.270	/
		Right side	190	0.187	-1.29	32	31.58	0.206	/
		Top side	190	0.013	-2.98	32	31.58	0.014	/
		Bottom side	190	0.307	3.17	32	31.58	0.338	/
GSM1900	GPRS Data-4 Slot	Front side	661	0.737	-3.02	29	28.02	0.924	4
		Back side	661	0.702	2.25	29	28.02	0.880	/
		Left side	661	0.431	3.97	29	28.02	0.540	/
		Right side	661	0.401	1.35	29	28.02	0.503	/
		Bottom side	661	0.710	3.21	29	28.02	0.890	/
WCDMA II	RMC	Front side	9262	0.753	2.16	24	23.10	0.926	/
		Back side	9262	0.394	0.31	24	23.10	0.485	/
		Left side	9262	0.251	-1.19	24	23.10	0.309	/
		Right side	9262	0.203	0.47	24	23.10	0.250	/
		Bottom side	9262	0.845	3.39	24	23.1	1.040	6
		Bottom side	9400	0.795	3.82	24	22.86	1.034	/
		Bottom side	9538	0.804	2.34	24	22.96	1.022	/
WCDMA IV	RMC	Front side	1312	0.758	2.86	25.17	23.18	1.199	/
		Front side	1413	0.744	3.36	25.17	23.09	1.201	/
		Front side	1513	1.2	3.26	25.17	25.16	1.203	8
		Back side	1513	0.504	-2.82	25.17	25.16	0.505	/
		Left side	1513	0.317	2.22	25.17	25.16	0.318	/
		Right side	1513	0.289	1.83	25.17	25.16	0.290	/
		Bottom side	1513	0.983	2.36	25.17	25.16	0.985	/
WCDMA V	RMC	Front side	4233	0.293	0.70	23	22.52	0.327	/
		Back side	4233	0.421	3.05	23	22.52	0.470	10
		Left side	4233	0.401	1.09	23	22.52	0.448	/
		Right side	4233	0.227	0.12	23	22.52	0.254	/
		Bottom side	4233	0.271	-2.52	23	22.52	0.303	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Front side	18700	0.985	-0.63	24	23.95	0.996	/
			1	0	Front side	18900	1.001	1.05	24	23.97	1.008	12
			1	0	Front side	19100	0.897	2.18	24	23.84	0.931	/
			50	0	Front side	18700	0.837	-3.78	24	23.23	0.999	/
			1	0	Back Side	18900	0.543	3.76	24	23.97	0.547	/
			50	0	Back Side	18700	0.521	-3.05	24	23.23	0.622	/
			1	0	Left Side	18900	0.402	3.81	24	23.97	0.405	/
			50	0	Left Side	18700	0.398	-0.77	24	23.23	0.475	/
			1	0	Right side	18900	0.354	-2.26	24	23.97	0.356	/
			50	0	Right side	18700	0.351	3.27	24	23.23	0.419	/
			1	0	Bottom Side	18900	0.831	0.74	24	23.97	0.837	/
			50	0	Bottom Side	18700	0.824	2.96	24	23.23	0.984	/
LTE Band 4	20M	QPSK	1	0	Front side	20050	1.105	0.19	24	23.59	1.214	/
			50	0	Front side	20050	0.954	-0.24	24	22.90	1.229	/
			1	0	Front side	20175	1.253	0.19	24	23.97	1.262	14
			50	0	Front side	20175	1.012	-0.24	24	23.12	1.239	/
			1	0	Front side	20300	1.120	0.19	24	23.64	1.217	/
			50	0	Front side	20300	0.895	-0.24	24	22.80	1.180	/
			1	0	Back Side	20175	0.731	-3.99	24	23.97	0.736	/
			50	0	Back Side	20175	0.725	3.23	24	23.12	0.888	/
			1	0	Left Side	20175	0.517	-1.34	24	23.97	0.521	/
			50	0	Left Side	20175	0.512	1.26	24	23.12	0.627	/
			1	0	Right side	20175	0.483	2.45	24	23.97	0.486	/
			50	0	Right side	20175	0.484	3.43	24	23.12	0.593	/
			1	0	Bottom Side	20175	0.898	3.49	24	23.97	0.904	/
			50	0	Bottom Side	20175	0.731	3.91	24	23.12	0.895	/
LTE Band 5	10M	QPSK	1	0	Front side	20525	0.348	1.28	25	24.67	0.375	/
			25	0	Front side	20525	0.342	-1.66	24	23.96	0.345	/
			1	0	Back Side	20525	0.512	-1.75	25	24.67	0.552	16
			25	0	Back Side	20525	0.503	-3.70	24	23.96	0.508	/
			1	0	Left Side	20525	0.283	-0.26	25	24.67	0.305	/
			25	0	Left Side	20525	0.280	-0.65	24	23.96	0.283	/
			1	0	Right side	20525	0.240	-3.45	25	24.67	0.259	/
			25	0	Right side	20525	0.232	-2.75	24	23.96	0.234	/
			1	0	Bottom Side	20525	0.315	-0.74	25	24.67	0.340	/
			25	0	Bottom Side	20525	0.307	3.87	24	23.96	0.310	/



LTE Band 12	10M	QPSK	1	0	Front side	23095	0.196	2.89	25	24.70	0.210	/
			25	0	Front side	23095	0.183	-2.08	24	23.88	0.188	/
			1	0	Back Side	23095	0.366	-2.39	25	24.70	0.392	18
			25	0	Back Side	23095	0.354	-3.04	24	23.88	0.364	/
			1	0	Left Side	23095	0.087	0.52	25	24.70	0.093	/
			25	0	Left Side	23095	0.085	1.47	24	23.88	0.087	/
			1	0	Right side	23095	0.065	-3.79	25	24.70	0.070	/
			25	0	Right side	23095	0.058	-1.09	24	23.88	0.060	/
			1	0	Bottom Side	23095	0.203	-2.06	25	24.70	0.218	/
			25	0	Bottom Side	23095	0.204	-2.78	24	23.88	0.210	/
LTE Band 25	20M	QPSK	1	0	Front side	26140	0.981	2.75	24	23.64	1.066	/
			1	0	Front side	26365	1.055	2.75	24	23.83	1.097	20
			1	0	Front side	26590	0.976	2.75	24	23.51	1.093	/
			50	0	Front side	26365	0.983	3.34	23	22.99	0.985	/
			1	0	Back Side	26365	0.578	-3.62	24	23.83	0.601	/
			50	0	Back Side	26365	0.571	0.39	23	22.99	0.572	/
			1	0	Left Side	26365	0.431	1.42	24	23.83	0.448	/
			50	0	Left Side	26365	0.427	0.68	23	22.99	0.428	/
			1	0	Right side	26365	0.387	-2.19	24	23.83	0.402	/
			50	0	Right side	26365	0.381	-2.1	23	22.99	0.382	/
			1	0	Bottom Side	26365	0.605	-0.97	24	23.83	0.629	/
			50	0	Bottom Side	26365	0.593	-2.7	23	22.99	0.594	/
LTE Band 26	15M	QPSK	1	0	Front side	26865	0.381	3.33	25	24.46	0.431	/
			36	0	Front side	26865	0.376	-3.55	24	23.74	0.399	/
			1	0	Back Side	26865	0.435	0.44	25	24.46	0.493	22
			36	0	Back Side	26865	0.430	3.88	24	23.74	0.457	/
			1	0	Left Side	26865	0.215	2.35	25	24.46	0.243	/
			36	0	Left Side	26865	0.207	-3.25	24	23.74	0.220	/
			1	0	Right side	26865	0.194	-1.05	25	24.46	0.220	/
			36	0	Right side	26865	0.190	-2.90	24	23.74	0.202	/
			1	0	Bottom Side	26865	0.256	-3.70	25	24.46	0.290	/
			36	0	Bottom Side	26865	0.260	0.84	24	23.74	0.276	/
LTE Band 41	20M	QPSK	1	0	Front side	40620	0.585	-1.67	25	24.87	0.603	24
			25	0	Front side	40620	0.580	2.53	24	24.07	0.571	/
			1	0	Back Side	40620	0.543	-0.56	25	24.87	0.559	/
			25	0	Back Side	40620	0.540	-0.31	24	24.07	0.531	/
			1	0	Left Side	40620	0.314	2.60	25	24.87	0.324	/
			25	0	Left Side	40620	0.312	-1.83	24	24.07	0.307	/
			1	0	Right side	40620	0.284	-2.57	25	24.87	0.293	/
			25	0	Right side	40620	0.281	-3.40	24	24.07	0.277	/
			1	0	Bottom Side	40620	0.357	2.71	25	24.87	0.368	/
			25	0	Bottom Side	40620	0.351	2.02	24	24.07	0.345	/



LTE Band 66	20M	QPSK	1	0	Front side	132072	1.091	-4	24	23.58	1.202	/
			25	0	Front side	132072	0.897	-1.63	24	22.84	1.172	/
			1	0	Front side	132322	1.199	-3.67	24	23.98	1.205	26
			25	0	Front side	132322	1.012	-1.77	24	23.31	1.186	/
			1	0	Front side	132572	1.005	-0.91	24	23.76	1.062	/
			25	0	Front side	132572	0.893	2.91	24	22.95	1.137	/
			1	0	Back Side	132322	0.841	-0.15	24	23.98	0.845	/
			25	0	Back Side	132322	0.835	-0.17	24	23.31	0.979	/
			1	0	Left Side	132322	0.531	-1.07	24	23.98	0.533	/
			25	0	Left Side	132322	0.524	1.1	24	23.31	0.614	/
			1	0	Right side	132322	0.487	-2.19	24	23.98	0.489	/
			25	0	Right side	132322	0.482	1.36	24	23.31	0.565	/
			1	0	Bottom Side	132322	0.613	-2.57	24	23.98	0.616	/
			25	0	Bottom Side	132322	0.605	-1.37	24	23.31	0.709	/
LTE Band 71	20M	QPSK	1	0	Front side	133297	0.354	-0.22	25	24.67	0.382	/
			25	0	Front side	133297	0.348	-2.8	24	23.87	0.359	/
			1	0	Back Side	133297	0.437	0.72	25	24.67	0.471	28
			25	0	Back Side	133297	0.43	-3.72	24	23.87	0.443	/
			1	0	Left Side	133297	0.213	-2.8	25	24.67	0.230	/
			25	0	Left Side	133297	0.208	3.92	24	23.87	0.214	/
			1	0	Right side	133297	0.197	1.14	25	24.67	0.213	/
			25	0	Right side	133297	0.191	0.6	24	23.87	0.197	/
			1	0	Bottom Side	133297	0.313	-0.48	25	24.67	0.338	/
			25	0	Bottom Side	133297	0.31	3.64	24	23.87	0.319	/



Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN	802.11b	Front side	1	0.127	2.08	14	13.49	0.143	30
		Back side	1	0.102	3.06	14	13.49	0.115	/
		Right side	1	0.054	-0.22	14	13.49	0.061	/
		Top side	1	0.076	-3.91	14	13.49	0.085	/
5.2G WLAN	802.11n20	Front side	36	0.077	3.83	12.5	12.09	0.085	32
		Back side	36	0.065	2.74	12.5	12.09	0.071	/
		Right side	36	0.043	-2.56	12.5	12.09	0.047	/
		Top side	36	0.060	1.17	12.5	12.09	0.066	/
5.3G WLAN	802.11n20	Front side	52	0.046	1.02	11.5	11.19	0.049	34
		Back side	52	0.035	1.05	11.5	11.19	0.038	/
		Right side	52	0.010	0.88	11.5	11.19	0.011	/
		Top side	52	0.024	3.48	11.5	11.19	0.026	/
5.8G WLAN	802.11a	Front side	165	0.048	-1.69	11.5	11.14	0.052	36
		Back side	165	0.037	2.62	11.5	11.14	0.040	/
		Right side	165	0.012	-1.08	11.5	11.14	0.013	/
		Top side	165	0.026	-3.78	11.5	11.14	0.028	/

Note:

- The test separation of all above table is 10mm.
- Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.143** W/Kg for Body)
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

**Repeated SAR**

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
WCDMA II	RMC	Bottom side	9262	0.812	2.13	24	23.1	0.999	/

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Front side	18900	0.984	3.37	24	23.97	0.991	/
LTE Band 4	20M	QPSK	1	0	Front side	20175	1.105	3.49	24	23.97	1.113	/
			50	0	Front side	20175	0.987	-2.23	24	23.12	1.209	/
LTE Band 25	20M	QPSK	1	0	Front side	26365	1.003	-0.76	24	23.83	1.043	/
LTE Band 66	20M	QPSK	1	0	Front side	132322	1.104	-2.96	24	23.98	1.109	/
			25	0	Front side	132322	0.995	-2.61	24	23.31	1.166	/

12.3 repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
WCDMA II	RMC	Bottom side	9262	1.040	0.999	0.958	-	-	-

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Ch.	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
LTE Band 2	20M	QPSK	1	0	Front side	18900	1.008	0.991	1.017	-	-	-
LTE Band 4	20M	QPSK	1	0	Front side	20175	1.262	1.113	1.134	-	-	-
			50	0	Front side	20175	1.239	1.209	1.025	-	-	-
LTE Band 25	20M	QPSK	1	0	Front side	26365	1.097	1.043	1.052	-	-	-
LTE Band 66	20M	QPSK	1	0	Front side	132322	1.205	1.109	1.087	-	-	-
			25	0	Front side	132322	1.186	1.166	1.017	-	-	-

Note:

1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
2. Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/Kg}$, only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45\text{W/Kg}$
4. The ratio is the difference in percentage between original and repeated measured SAR.

**Simultaneous Multi-band Transmission Evaluation:**

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth
Body	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. Based upon KDB 447498 D01, BT SAR is excluded as below table.
4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
5. For minimum test separation distance $\leq 50\text{mm}$, Bluetooth standalone SAR is excluded according to $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} (\text{GHz}) / x] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
6. The reported SAR summation is calculated based on the same configuration and test position.
7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
 - a) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} (\text{GHz}) / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$;
Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is $>50\text{mm}$.

Estimated SAR		Maximum Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	5.2	3.311	≤ 5	2.441	0.138
	Body			≤ 5	2.441	0.138



Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + 2.4G WLAN	Head	GSM	0.435	0.887
		2.4G WLAN	0.452	
	Body	GSM	0.924	1.067
		2.4G WLAN	0.143	
GSM + Bluetooth	Head	GSM	0.435	0.573
		Bluetooth	0.138	
	Body	GSM	0.924	1.062
		Bluetooth	0.138	
GSM + 5G WLAN	Head	GSM	0.435	0.625
		5G WLAN	0.190	
	Body	GSM	0.924	1.009
		5G WLAN	0.085	
WCDMA + 2.4G WLAN	Head	WCDMA	0.462	0.914
		2.4G WLAN	0.452	
	Body	WCDMA	1.203	1.346
		2.4G WLAN	0.143	
WCDMA + Bluetooth	Head	WCDMA	0.462	0.600
		Bluetooth	0.138	
	Body	WCDMA	1.203	1.341
		Bluetooth	0.138	
WCDMA + 5G WLAN	Head	WCDMA	0.462	0.652
		5G WLAN	0.190	
	Body	WCDMA	1.203	1.288
		5G WLAN	0.085	



LTE + 2.4G WLAN	Head	LTE	0.514	0.966
		2.4G WLAN	0.452	
	Body	LTE	1.262	1.405
		2.4G WLAN	0.143	
LTE + Bluetooth	Head	LTE	0.514	0.652
		Bluetooth	0.138	
	Body	LTE	1.262	1.400
		Bluetooth	0.138	
LTE + 5G WLAN	Head	LTE	0.514	0.704
		5G WLAN	0.190	
	Body	LTE	1.262	1.347
		5G WLAN	0.085	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2020.07.14	2023.07.13
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2020.07.14	2023.07.13
1800MHz Dipole	MVG	SID1800	SN 30/14 DIP1G800-329	2020.07.14	2023.07.13
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2020.07.14	2023.07.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2020.07.14	2023.07.13
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2020.07.14	2023.07.13
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2020.07.14	2023.07.13
E-Field Probe	MVG	SSE2	SN 07/21 EPOG352	2021.03.01	2022.02.28
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2020.11.24	2021.11.23
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom2	MVG	SAM	SN 32/14 SAM116	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	99899	DC-18GHz	N/A	N/A
Directional coupler	Narda	4226-20	3305	N/A	N/A
Network Analyzer	Agilent	8753ES	US38432810	2020.10.12	2021.10.11
Multi Meter	Keithley	Multi Meter 2000	4050073	2020.10.10	2021.10.09
Signal Generator	Agilent	N5182A	MY50140530	2020.10.10	2021.10.09
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2020.10.10	2021.10.09
Wireless Communication Test Set	R&S	CMW500	117239	2020.10.10	2021.10.09
Power Amplifier	DESAY	ZHL-42W	9638	2020.10.12	2021.10.11
Power Meter	R&S	NRP	100510	2020.10.10	2021.10.09
Power Meter	Agilent	E4419B	QB43312265	2020.10.10	2021.10.09
Power Sensor	R&S	NRP-Z11	101919	2020.10.10	2021.10.09
Power Sensor	HP	E9300A	US39210170	2020.10.10	2021.10.09
Temperature hygrometer	SuWei	SW-108	N/A	2020.10.12	2021.10.11
Thermograph	Elitech	RC-4	S/N EF7176501537	2020.10.12	2021.10.11

Note:

Per KDB 865664 D01, Dipole SAR Validation Verification, STS LAB has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole
2. System validation with specific dipole is within 10% of calibrated value Return-loss in within 20% of calibrated measurement



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

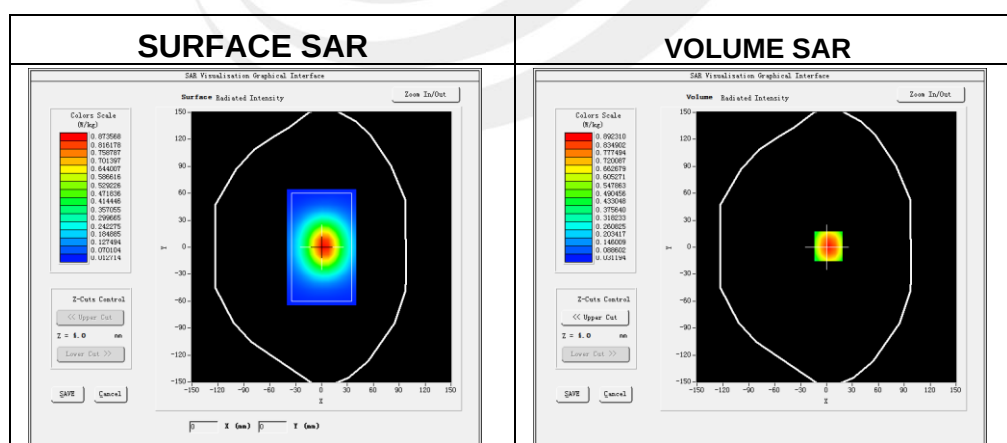
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2021-03-24

Experimental conditions

Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.42
Conductivity (S/m)	0.87
Probe	SN 07/21 EPG0352
ConvF	1.58
Crest factor	1:1



Maximum location: X=2.00, Y=1.00

SAR 10g (W/Kg)	0.557427
SAR 1g (W/Kg)	0.844317